COSICIDITALT THE LITTING

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SUBJECT: Request for D/OG Support Project.

- 1. The development of the Chinese Communist economy is largely dependent upon progress in Agriculture. The Chinese Communist "less forward" progress contemplates extremely large increases in grain production in the next few years and explusives measures to raise grain yields. In analysis of the climatic Limitations on grain production in Communist Chins and the identification of climatically analogous areas in Free World countries would be of great assistance to N/AG in developing estimates of the grain yield potential in Communist China.
- **o**£ 25X1A9a 2. Preliminary talks by W/AC personnel with Mr. D/GG have suggested that D/GG has both the capability and interest necessary to undertake such a study. It is requested, therefore, that I/CO propers on enalysis of the climatic factors affecting the production of grain in Communist China.
- 3. It is not possible to develop detailed terms of reference at this stage since the analysis will undoubtedly require compresses between the ideal and the possible measurable variables. At this stage neither the ideal variables, nor the consible measurable variables (in terms of the climatic data available for China) have been identified. The following terms of reference should therefore be considered to be preliminary, and it is expected that they will be modified by consultation between WAU and D/GG.
  - 4. Terms of reference. The project could be developed in the parte:
  - a. The first part to consist of a study of the climatic limitations to the growth of grain (especially rice and wheat) in Communist China by prographic location.

This section will require an identification of the most important measurable climatic factors limiting grain yields, and the preparation of a socies of maps showing the asographic location of these climatic variables in China.

The limiting vericules for grain yields can be identified by a study of the ecology of grains, and will include such factors as the frost-free period, rainfall, and perhaps an appropriate sums of daily temperatures. Since multiple cropping is important in China, the limiting variables for sultiple cropping, so well as single crops, should be identified.

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It is believed that when the series of maps sharing climatic limiting factors are overlaid, the grain yield potential of various areas will be clearer. When equabled with information about soils, topography, and present area (which factors are not asked for in this study) this study will provide a basis for estimating the Chinace grain production potential.

Estimates of potential yields will necessarily involve a series of assumptions as to fartilizer, technology, etc. These assumptions should be specified.

b. The second part of the project should provide an identification of Free World areas, with sevenced grain technology and high grain yields, which have climates similar to the important Chinese Communist grain areas.

The significant climatic factors will have been identified for part a. shove. By a comparison of grain yields in Free World areas climatically analogous to specified areas in China, the potential effect of different technology (more chamical fertilizers, improved seed, more machinery) on grain yields in China can be muchyzed.

5. A study similar inconcept to part (a) (paragraph 3), analyzing climatic factors limiting Soviet corn production, was recently completed by D/GG. A study of Free World areas climatically smalogous to Soviet grain areas, similar in concept to part (b) (paragraph 3), was made as part of the OFFR external research project

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